IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 2, 6, 17, 28 and 36 in accordance with the following:

1. (CURRENTLY AMENDED) A central processing unit, comprising:

a first private key concealed in secrecy;

an encrypting unit obtaining, from a first-Generic Tamper resistant module license (GT license) of a first-program, an access condition for accessing a memory region during an execution process of the first program and a code decryption key for decrypting an encrypted block configuring the first-program, by decrypting with the first-private key the first-GT license of the first-program encrypted with a public key pairing with the first-private key;

a tamper resistant buffer that a user cannot reference or falsify;

a Translation Lookaside Buffer (TLB) linked to said tamper resistant buffer and recording an address of the memory region, at which the encrypted block which configures the first program is recorded, and recording the access condition to the memory region obtained from the first-GT license;

a memory managing unit; and

a processor core, wherein:

the code decryption key obtained from said first-GT license of the first-program is recorded to said tamper resistant buffer,

said memory managing unit obtains the access condition to the memory region at which the encrypted block is recorded from said TLB based on an address of the memory region and further obtains the code decryption key corresponding to the memory region from said tamper resistant buffer, and

said processor core permits an access to the memory region from the execution process of the first program based on the access condition obtained by said memory managing unit.

2. (CURRENTLY AMENDED) The central processing unit according to claim 1, wherein said encrypting unit decrypts the encrypted block in units of cache when the encrypted

block which configures the first-program is output from a memory region to said cache.

- 3. (CANCELLED)
- 4. (CANCELLED)
- 5. (PREVIOUSLY PRESENTED) The central processing unit according to claim 1, wherein the code decryption key and the encryption key used to encrypt the encrypted block are a same key.
- 6. (CURRENTLY AMENDED) The central processing unit according to claim 1, wherein when a memory region accessed from the execution process of the first-program switches from a first memory region to a second memory region, said memory managing unit further determines whether or not a code decryption key corresponding to the first memory region, which is obtained from said tamper resistant buffer, and a code decryption key corresponding to the second memory region match, and an access is made to the second memory region from the execution process if said memory managing unit determines that the code decryption keys match, or the access to the second memory region is not made from the execution process if said memory managing unit determines that the code decryption keys mismatch.
- 7. (WITHDRAWN CURRENTLY AMENDED) The central processing unit according to claim 2, wherein the first-GT license is buried in the first-program.
- 8. (PREVIOUSLY PRESENTED) The central processing unit according to claim 1, wherein:

a different data encryption key is recorded to said tamper resistant buffer for each code decryption key;

said encrypting unit records data within said cache to the memory region that is corresponded to the data decryption key by said TLB after encrypting the data with the data decryption key when recording the data to the memory region, and writes encrypted data within the memory region to said cache after decrypting the read data with the data encryption key when reading the encrypted data within the memory region.

- 9. (ORIGINAL) The central processing unit according to claim 8, wherein when data obtained by executing a first code is used by a second code, said processor core sets said TLB so as to provide the second code with an access right to a memory region to which the data is recorded, and also sets said TLB and said tamper resistant buffer so that the second code uses a data encryption key for encrypting the data when reading the data from the memory region.
 - 10. (PREVIOUSLY PRESENTED) The central processing unit according to claim 1, further comprising:

a register; and

a register access control table for performing access control for said register, wherein said processor core controls sealing and release of said register with a sealing flag within said register access control table.

- 11. (PREVIOUSLY PRESENTED) The central processing unit according to claim 1, wherein when contents of said TLB is recorded to a page table within an external storage device, said encrypting unit affixes a signature to the contents to be recorded, and verifies whether or not the signature is legal when contents of the page table is captured into said TLB.
- 12. (PREVIOUSLY PRESENTED) The central processing unit according to claim 1, wherein when contents of said tamper resistant buffer is recorded to an encryption key table within an external storage device, said encrypting unit encrypts the contents to be recorded.
- 13. (WITHDRAWN) The central processing unit according to claim 2, which is connected to a different central processing unit, wherein:

a session key is obtained by making mutual authentication with the different central processing unit; and

said encrypting unit encrypts contents of said cache with the session key, and synchronously transfers the contents to the different central processing unit.

14. (WITHDRAWN) The central processing unit according to claim 2, wherein said encrypting unit obtains a private key encryption key used when a second private key is encrypted by decrypting a second license added to a second program with a public key before the first program is executed, and decrypts the second private key with the obtained private key encryption key.

15. (WITHDRAWN) The central processing unit according to claim 14, wherein: an access condition indicating that only a read can be made from an execution process of the first program is added to the second license; and

the second private key can be read only from the execution process of the first program.

- 16. (WITHDRAWN) The central processing unit according to claim 14, wherein the second private key is encrypted with a data encryption key and recorded to a memory region.
- 17. (CURRENTLY AMENDED) The central processing unit according to claim 1, wherein:

said tamper resistant buffer records unable-to-output information indicating whether or not to output corresponding information within said tamper resistant buffer to an outside of said tamper resistant buffer, and cache lock information indicating whether or not to output corresponding information to an outside of said cache; and

a move of the first-GT license between the first-program and a different program is managed based on the unable-to-output information and the cache lock information.

- 18. (WITHDRAWN) The central processing unit according to claim 2, wherein the first program is a trusted computing module.
- 19. (WITHDRAWN) The central processing unit according to claim 2, wherein the first program is a program for causing the central processing unit to implement an electronic wallet.
- 20. (WITHDRAWN) The central processing unit according to claim 2, wherein the first program is a program handling personal information.
- 21. (WITHDRAWN) The central processing unit according to claim 2, wherein the first program is a virus check program of a code installed in the central processing unit.
- 22. (WITHDRAWN) The central processing unit according to claim 2, wherein the first program is a mobile agent that moves among a plurality of central processing units.

23. (WITHDRAWN) The central processing unit according to claim 2, wherein:
the block which configures the first program includes hash verification
requirement/nonrequirement information indicating whether or not verification of a hash value of the block is required; and

a hash unit calculating the hash value of the block, and adding the hash value to the block based on the hash verification requirement/nonrequirement information, and

a hash verifying unit verifying the hash value of the block based on the hash verification requirement/nonrequirement information are further comprised.

24. (WITHDRAWN) The central processing unit according to claim 2, wherein: the block which configures the first program includes encryption requirement/nonrequirement information indicating whether or not the block requires protection; and

a protection block selecting unit determining whether the block is output either to said encrypting unit or to said cache or a memory region unchanged based on the encryption requirement/nonrequirement information is further comprised.

25. (WITHDRAWN) The central processing unit according to claim 2, wherein: a header of an executable file of the first program includes an encrypted block bitmap indicating a configuration of the block which configures the first program; and

a protection block selecting unit determining whether the block is output either to said encrypting unit or to the cache or a memory region unchanged based on the encrypted block bitmap is further comprised.

26. (WITHDRAWN) The central processing unit according to claim 2, wherein: a start of a code of the first program is a code which specifies that a plurality of blocks configuring the first program are a repetition of a combination of a plain text block and an encrypted block, and also specifies a number of successive plain text blocks, and a number of successive encrypted blocks in the combination; and

said processor core determines whether the block is output either to said encrypting unit or to said cache or a memory region unchanged by executing the code.

27. (WITHDRAWN) The central processing unit according to claim 2, further comprising between said cache and a memory

a cache line via said encrypting unit, and a cache line not via said encrypting unit.

28. (CURRENTLY AMENDED) A computer comprising:

a central processing unit comprising:

a first-private key concealed in secrecy;

an encrypting unit obtaining, from a first-Generic Tamper resistant module license (GT license) of a first-program, an access condition for accessing a memory region during an execution process of the first-program and a code decryption key for decrypting an encrypted block configuring the first-program, by decrypting with the first-private key the first-GT license of the first-program encrypted with a public key pairing with the first private key;

- a tamper resistant buffer that a user cannot reference or falsify;
- a Translation Lookaside Buffer (TLB) linked to said tamper resistant buffer and recording an address of the memory region, at which the encrypted block which configures the first-program is recorded, and recording the access condition to the memory region obtained from the first-GT license;
 - a memory managing unit; and
 - a processor core, wherein:

the code decryption key obtained from said first-GT license of the first-program is recorded to said tamper resistant buffer,

said memory managing unit obtains the access condition to the memory region at which the encrypted block is recorded from said TLB based on an address of the memory region and further obtains the code decryption key corresponding to the memory region from said tamper resistant buffer, and

said processor core permits an access to the memory region from the execution process of the first-program based on the access condition obtained by said memory managing unit.

- 29. (WITHDRAWN) The central processing unit of claim 1, wherein said central processing unit is set in an IC card.
- 30. (WITHDRAWN) The central processing unit according to claim 29, wherein the first program is a program for implementing a security function of the IC card.

- 31. (WITHDRAWN) The central processing unit according to claim 2, which is mounted in a robot, wherein the first program is a control program for controlling the robot.
- 32. (WITHDRAWN) A recording device in which is recorded a program for causing a central processing unit to execute a process of a control for giving authorization to execute a protection program, wherein, the protection program to be encrypted with a code encryption key, and a license, which includes the code encryption key and is encrypted with a public key pairing with a private key comprised in secrecy within the central processing unit, is provided in correspondence with the protection program, wherein the central processing unit includes an encrypting unit encrypting a block and decrypting an encrypted block, wherein a first private key is concealed in secrecy, and said encrypting unit obtains from a first license a code decryption key for decrypting an encrypted block which configures a first program by decrypting with the first private key the first license of the first program, which is encrypted with a public key pairing with the first private key, the process comprising:

entering the license into the central processing unit before the central processing unit executes the protection program;

causing an encrypting unit comprised by the central processing unit to obtain the code encryption key from the license by decrypting the license with the private key; and

causing the encrypting unit to decrypt the protection program with the code encryption key.

33. (WITHDRAWN) A program execution authorization method giving authorization to execute a protection program to a central processing unit, wherein, the protection code program is encrypted with a code encryption key, and a license, which includes the code encryption key and is encrypted with a public key pairing with a private key comprised within the central processing unit, is provided in correspondence with the protection program, and the central processing unit includes an encrypting unit encrypting a block and decrypting an encrypted block, wherein a first private key is concealed in secrecy, and said encrypting unit obtains from a first license a code decryption key for decrypting an encrypted block which configures a first program by decrypting with the first private key the first license of the first program, which is encrypted with a public key pairing with the first private key, said method comprising:

causing the central processing unit to obtain the license before executing the protection program;

causing the central processing unit to obtain the code encryption key from the license by decrypting the license with the private key; and

causing the central processing unit to decrypt the protection program with the code encryption key.

34. (PREVIOUSLY PRESENTED) A computer-readable storage medium storing a method executed by a central processing unit for decrypting a program code according to operations comprising:

entering a Generic Tamper resistant module license (GT license) into the central processing unit before the program code is executed, wherein the GT license, which includes a code encryption key, is encrypted with a public key which is paired with a private key hidden within the central processing unit and is provided in correspondence with the program code;

decrypting the GT license is with the private key with the central processing unit; and decrypting the program code with the code encryption key obtained from the GT license with the central processing unit.

35. (WITHDRAWN) A program generating device generating a program executed by a central processing unit having an encrypting unit encrypting a block, and decrypting an encrypted block, wherein a first private key is concealed in secrecy, and the encrypting unit obtains from a first license a code decryption key for decrypting an encrypted block which configures a first program by decrypting with the first private key the first license of the first program, which is encrypted with a public key pairing with the first private key, said program generating device comprising:

an inputting unit inputting a code object,

a linker preprocessing unit dividing the input code object into a plurality of blocks, and adding an NOP instruction to each of the plurality of blocks,

a linker unit making an address resolution,

a protection code executable format generating unit generating a protection code executable format by encrypting each of the plurality of blocks with a code encryption key, and

a license generating unit generating a license that includes the code encryption key and is encrypted with a public key pairing with the private key, wherein:

the license is entered into the central processing unit before the computer executes the protection code executable format, and decrypted with the private key by the encrypting unit; and the protection code executable format is decrypted with the code encryption key obtained

from the license by the encrypting unit.

36. (CURRENTLY AMENDED) A central processing unit, comprising:

a first-private key concealed in secrecy

encrypting means for obtaining, from a first-Generic Tamper resistant module license (GT license) of a first-program, an access condition for accessing a memory region during an execution process of the first-program and a code decryption key for decrypting an encrypted block configuring the first-program, by decrypting with the first-private key the first-GT license of the first-program encrypted with a public key pairing with the first-private key

a tamper resistant buffer that a user cannot reference or falsify;

a Translation Lookaside Buffer (TLB) linked to said tamper resistant buffer and recording an address of the memory region, at which the encrypted block which configures the first program is recorded, and recording the access condition to the memory region obtained from the first-GT license;

a memory managing means; and

a processor core, wherein:

the code decryption key obtained from said first-GT license of the first-program is recorded to said tamper resistant buffer,

said memory managing means obtains the access condition to the memory region at which the encrypted block is recorded from said TLB based on an address of the memory region and further obtains the code decryption key corresponding to the memory region from said tamper resistant buffer, and

said processor core permits an access to the memory region from the execution process of the first-program based on the access condition obtained by said memory managing means.

37. (WITHDRAWN) A program product having a program for causing a central processing unit to execute a process of a control for authorization to execute a protection program, wherein, the protection program to be encrypted with a code encryption key, and a license, which includes the code encryption key and is encrypted with a public key pairing with a private key comprised in secrecy within the central processing unit, is provided in correspondence with the protection program, and the central processing unit includes an encrypting unit encrypting a block, and decrypting an encrypted block wherein a first private key is concealed in secrecy, and said encrypting unit obtains from a first license a code decryption key for decrypting an encrypted block which configures a first program by decrypting with the first

private key the first license of the first program, which is encrypted with a public key pairing with the first private key, the process comprising:

entering the license into the central processing unit before the central processing unit executes the protection program;

causing an encrypting unit comprised by the central processing unit to obtain the code encryption key from the license by decrypting the license with the private key; and

causing the encrypting unit to decrypt the protection program with the code encryption key.

38. (WITHDRAWN) A program product having a program code executed by a computer, wherein:

the program code is encrypted with a code encryption key;

a license, which includes the code encryption key and is encrypted with a public key paring with a private key comprised in secrecy within a central processing unit comprised by the computer to execute the program code, is provided in correspondence with the program code;

the license is entered into the central processing unit before the program code is executed:

the license is decrypted with the private key by the central processing unit; and the program code is decrypted with the code encryption key obtained from the license by the central processing unit.